

OCT. 5. 2005 12:50PM  
TO: USPTO

ZILKA-KOTAB, PC

10/041786

NO. 0430 P. 1

RECEIVED  
CENTRAL FAX CENTER

OCT 05 2005

6930862B2

**ZILKA·KOTAB**

PC  
ZILKA, KOTAB & FEECE™

95 SOUTH MARKET ST., SUITE 420  
SAN JOSE, CA 95113

TELEPHONE (408) 971-2573  
FAX (408) 971-4660

**Certificate  
OCT 07 2005  
of Correction**

**FAX COVER SHEET**

<b>Date:</b> October 5, 2005	<b>Phone Number</b>	<b>Fax Number</b>
<b>To:</b> Certificate of Corrections Branch, USPTO		(571) 273-8300
<b>From:</b> Dominic M. Kotab		

**Docket No.:** HIT1P040/SJO920010087US1

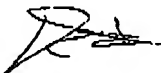
**App. No: 10/041,786**

**Total Number of Pages Being Transmitted, Including Cover Sheet: 13**

**Message:**

Please deliver to the Certificate of Corrections Branch.

Thank you,



Dominic M. Kotab

☐ Original to follow Via Regular Mail ☒ Original will Not be Sent ☐ Original will follow Via Overnight Courier

\*\*\*\*\*  
The information contained in this facsimile message is attorney privileged and confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone (if long distance, please call collect) and return the original message to us at the above address via the U.S. Postal Service. Thank you.  
\*\*\*\*\*

IF YOU DO NOT RECEIVE ALL PAGES OR IF YOU ENCOUNTER  
ANY OTHER DIFFICULTY, PLEASE PHONE Erica  
AT (408) 971-2573 AT YOUR EARLIEST CONVENIENCE

October 5, 2005

OCT 11 2005

OCT. 5. 2005 12:50PM

ZILKA-KOTAB, PC

NO. 0430 P. 2

**RECEIVED  
CENTRAL FAX CENTER**

**OCT 05 2005**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of )

Hardayal Singh Gill )

Application No. 10/041,786 )

Filed: 01/07/2002 )

For: **SHIELDED EXTRAORDINARY  
MAGNETORESISTANCE HEAD** )

Group Art Unit: 2652

Examiner: Klimowicz, W.

Attorney Docket No.  
HIT1P040/SJO920010087US1

Date: October 5, 2005

**CERTIFICATE OF FACSIMILE**

I hereby certify that this correspondence is being facsimile transmitted to the Commissioner for Patents via facsimile to fax number: (571) 273-8300 on October 5, 2005.

Signed: 

Erica L. Farlow

**REQUEST FOR CERTIFICATE OF CORRECTION (37 CFR 1.322)**

Attention Certificate of Corrections Branch,  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Examiner:

Enclosed herewith is a Certificate of Correction. The Certificate of Correction corrects clerical and typographical errors in the specification, claims, and References Cited listing.

We have also enclosed a copy of the Information Disclosure Statement with PTO Form 1449 that lists the prior art submitted in this application on January 7, 2002.

**HIT1P040/SJO920010087US1**

- 1 -


**OCT 11 2005**

Additionally, we have enclosed a copy of the stamped return receipt postcard as well as a PAIR print-out, both of which confirm receipt of the Information Disclosure Statement and Form 1449. Please note that at least one of the references cited in this IDS was relied upon by the Examiner in an Office Action for this application, and not listed on the Examiner's Form 892.

Because the errors are the fault of the Office it is believed that no fees are due. It is respectfully requested that a Certificate of Correction be issued.

In the event a telephone conversation would expedite issuance of the Certificate of Correction, the Examiner may reach the undersigned at (408) 971-2573.

Respectfully submitted,

By:   
Dominic M. Kotab  
Reg. No. 42,762

Date: 10/5/05

Zilka-Kotab PC  
P.O. Box 721120  
San Jose, California 95172-1120  
Telephone: (408) 971-2573  
Facsimile: (408) 971-4660

HIT1P040/SJO920010087US1

- 2 -

PTO/SB/44 (04-04)

Approved for use through 04/30/2007. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.  
(Also Form PTO-1050)**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**PATENT NO. : 6,930,862 *B2*

DATED : Aug. 16, 2005

INVENTOR(S) : Gill et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the claims:

col. 8, line 9 after "of the EMR" delete "read".

In Section (56) - References Cited:

in the "U.S. PATENT DOCUMENTS" Section, add the following patent numbers:

6,117,690

5,965,283

5,699,215

5,422,621

4,371,905

4,935,832

In Section (56) - References Cited:

in the "FOREIGN PATENT DOCUMENTS" Section, add the following publication number:

WO 01/41214 A1

In Section (56) - References Cited:

in the "OTHER PUBLICATIONS" Section, add the following citations:

-Solín, S.A. et al; Enhanced Room-Temperature Geometric Magnetoresistance in Inhomogeneous Narrow-Gap Semiconductors, SCIENCE Vol. 289, 09/01/2000.

-Solín, S.A. et al; Enhanced Room-Temperature Geometric Magnetoresistance in Inhomogeneous Narrow-Gap Semiconductors, The Magnetic Recording Conference, August 20-22, 2001.

-Isai, Masaaki et al; Preparation and Crystal Properties of Thin InSb Films for Highly Sensitive Magnetoresistance Elements, Journal of Materials Research, 1986.

MAILING ADDRESS OF SENDER:

Zilka-Kotab, PC  
P.O. Box 721120  
San Jose, California 95172-1120

PATENT NO. 6,930,862

No. of additional copies

 1

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

PTO/SB/44 (04-04)

Approved for use through 04/30/2007. OMB 0951-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.  
(Also Form PTO-1050)**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**PATENT NO. : 6,930,862 *B2*

DATED : Aug. 16, 2005

INVENTOR(S) : Gill et al.

It is certified that error appears in the above-identified patent and that said Letters Patent  
is hereby corrected as shown below:

In Section (56) - References Cited:

in the "OTHER PUBLICATIONS" Section, add the following citations:

-Chi, C. et al; Gradiometer Hall Probe, IBM Technical Disclosure Bulletin, Vol. 37 04/1994.

-Gambino, R. et al; Improved Magnetoresistive Sensor, IBM Technical Disclosure Bulletin, Vol. 38, No. 08,  
August 1995.

-Gambino, R. et al; Magnetic Films for Hall Effect Devices Useful for Magnetic Recording Heads, IBM  
Technical Disclosure Bulletin, Vol. 18, No. 12, May 1976.

**MAILING ADDRESS OF SENDER:**

Zilka-Kotab, PC  
P.O. Box 721120  
San Jose, California 95172-1120

PATENT NO. 6,930,862

No. of additional copies

 1

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**COPY**  
**PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:	)	
	)	Group Art Unit: Unassigned
Hardayal Singh Gill et al.	)	
	)	Examiner: Unassigned
Application No. Unassigned	)	
	)	Atty. Docket No. SJ09-2001-0087US1/
Filed: Herewith	)	IBM1P006
	)	
For: SHIELDED EXTRAORDINARY	)	Date: January 7, 2002
MAGNETORESISTANCE HEAD	)	

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on January 7, 2002.

Signed: Erica L. Mann

Erica L. Mann

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §§ 1.56 AND 1.97(b)**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

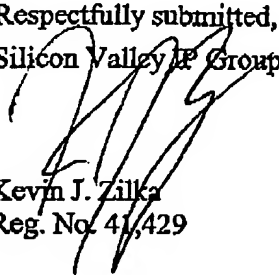
Attny Dkt No. SJ09-2001-0087US1/IBM1P006

1

OCT 11 2005

This Information Disclosure Statement is believed to be filed before the mailing date of a first Office Action on the merits. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-1351 (Order No. SJ09-2001-0087US1/IBM1P006).

Respectfully submitted,  
Silicon Valley IP Group



Kevin J. Zilka  
Reg. No. 41,429

P.O. Box 721120  
San Jose, CA 95172-1120  
Telephone: (408) 971-2573

<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	<b>Atty. Docket No.</b> IBM1P006/SJ09200100087US1	<b>Application No.:</b> Unassigned
	<b>Applicant:</b> Hardayal Singh Gill et al.	
	<b>Filing Date:</b> Herewith	<b>Group Art Unit:</b> Unassigned

**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	6,117,690	09/12/2000	Bennett et al.	438	3	02/01/1999
	B	5,965,283	10/12/1999	Solin et al.	428	692	10/12/1999
	C	5,699,215	12/16/1997	Solin et al.	360	113	03/11/1997
	D	5,422,621	06/06/1995	Gambino et al.	338	32	10/29/1993
	E	4,371,905	02/01/1983	Valstyn et al.	360	112	11/13/1980
	F	4,935,832	06/19/1990	Das et al.	360	112	03/16/1988

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation
	G	01/41214 A1	06/07/2001	WO	H01L	23/58	Yes No

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	H	Solin, S.A. et al; Enhanced Room-Temperature Geometric Magnetoresistance in Inhomogeneous Narrow-Gap Semiconductors, SCIENCE Vol. 289, 09/01/2000.
	I	Solin, S.A. et al; Enhanced Room-Temperature Geometric Magnetoresistance in Inhomogeneous Narrow-Gap Semiconductors, The Magnetic Recording Conference, August 20-22, 2001
	J	Isai, Masaaki et al; Preparation and Crystal Properties of Thin InSb Films for Highly Sensitive Magnetoresistance Elements, Journal of Materials Research, 1986
	K	Chi, C. et al; Gradiometer Hall Probe, IBM Technical Disclosure Bulletin, Vol. 37 04/1994
	L	Gambino, R. et al; Improved Magnetoresistive Sensor, IBM Technical Disclosure Bulletin, Vol. 38, No. 08, August 1995
	M	Gambino, R. et al; Magnetic Films for Hall Effect Devices Useful for Magnetic Recording Heads, IBM Technical Disclosure Bulletin, Vol. 18, No. 12, May 1976
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



COPY

## PATENT POSTCARD

Docket No. IBM1P006 Appl. No. Unassigned Date 1/7/2002  
By: KJZ:Elm Filing Date: Herewith Express Mail No.: EV008112419U  
Inventor(s): Hardayal Singh Gill et al.  
Title: SHIELDED EXTRAORDINARY MAGNETORESISTANCE HEAD

The following has been received in the U.S. Patent & Trademark Office on the date stamped below

- X Patent Application Transmittal
- X 18 Pages Specification, Claims and Abstract
- X 04 Sheets of Drawings
- X 2 Page Combined Declaration and Power of Attorney
- X Assignment and Assignment Recordation Cover Sheet
- X Information Disclosure Statement, PTO 1449 & Copies of References
- X Return Postcard

31000 U.S. PRO  
10/04/786  
01/07/02





United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)

COPY

## PATENT APPLICATION INFORMATION RETRIEVAL



Search results as of: 10-5-2005::12:56:31 E.T.

Search results for patent number: 6,930,862			
Application Number:	10/041,786	Customer Number:	50535
Filing or 371(c) Date:	01-07-2002	Status:	Patented Case
Application Type:	Utility	Status Date:	07-27-2005
Examiner Name:	KLIMOWICZ, WILLIAM JOSEPH	Location:	ELECTRONIC
Group Art Unit:	2652	Location Date:	-
Confirmation Number:	3113	Earliest Publication No:	US 2003-0128478 A1
Attorney Docket Number:	IBM1P006/SJ0920010087US1	Earliest Publication Date:	07-10-2003
Class/ Sub-Class:	360/313	Patent Number:	6,930,862
First Named Inventor:	Hardayal Gill, Palo Alto, CA (US)	Issue Date of Patent:	08-16-2005
Title Of Invention:	SHIELDED EXTRAORDINARY MAGNETORESISTANCE HEAD		

## Search Options

Assignments
Display References
Image File Wrapper
Maintenance Fees - Retrieve fees to pay
Maintenance Fees - View payment windows
Maintenance Statement - View 04 year payment window
Maintenance Statement - View 08 year payment window
Maintenance Statement - View 12 year payment window
Patent Term Adjustment History
Published Documents

Maintenance Fees Available: Mon-Fri 5:30 AM to Midnight, Sat-Sun-Hol. 7:30 AM to 8:00 PM E.T.

File History	
Date	Contents Description
08-16-2005	Recordation of Patent Grant Mailed
07-27-2005	Issue Notification Mailed
08-16-2005	Patent Issue Date Used in PTA Calculation
07-20-2005	Receipt into Pubs
07-19-2005	Dispatch to FDC
07-19-2005	Application Is Considered Ready for Issue
07-06-2004	Workflow - Request for RCE - Finish
03-10-2005	Issue Fee Payment Verified

03-10-2005	Issue Fee Payment Received
03-07-2005	Correspondence Address Change
01-21-2005	Workflow - File Sent to Contractor
01-06-2005	Mail Notice of Allowance
01-06-2005	Mail Examiner's Amendment
01-05-2005	Issue Revision Completed
01-05-2005	Notice of Allowance Data Verification Completed
01-05-2005	Examiner's Amendment Communication
01-07-2002	Reference capture on IDS
11-17-2004	IFW TSS Processing by Tech Center Complete
11-17-2004	Date Forwarded to Examiner
10-12-2004	Response after Non-Final Action
10-24-2004	Correspondence Address Change
07-19-2004	Mail Non-Final Rejection
07-17-2004	Non-Final Rejection
07-06-2004	Workflow - Request for RCE - Begin
07-06-2004	Date Forwarded to Examiner
07-06-2004	Date Forwarded to Examiner
06-21-2004	Request for Continued Examination (RCE)
07-06-2004	DISPOSAL FOR A RCE/CPA/129 (express abandonment if CPA)
06-21-2004	Workflow incoming amendment IFW
05-27-2004	Mail Advisory Action (PTOL - 303)
05-27-2004	Advisory Action (PTOL-303)
05-25-2004	Date Forwarded to Examiner
05-20-2004	Amendment after Final Rejection
05-20-2004	Workflow incoming amendment IFW
03-22-2004	Mail Final Rejection (PTOL - 326)
03-16-2004	Final Rejection
02-11-2004	Date Forwarded to Examiner
01-14-2004	Response after Non-Final Action
01-14-2004	Request for Extension of Time - Granted
10-10-2003	Mail Non-Final Rejection
10-08-2003	Non-Final Rejection
03-26-2002	Case Docketed to Examiner in GAU
01-07-2002	Information Disclosure Statement (IDS) Filed
03-05-2002	Case Docketed to Examiner in GAU
02-25-2002	Application Dispatched from OIPE
02-14-2002	Application Is Now Complete
02-05-2002	IFW Scan & PACR Auto Security Review
01-19-2002	IFW Scan & PACR Auto Security Review
01-07-2002	Initial Exam Team nn